

09/868,305 Thomas McKenzie

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEx enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 20	EVENTLINE will be removed from STN
NEWS	28	Mar 24	PATDPAFULL now available on STN
NEWS	29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	30	Apr 11	Display formats in DGENE enhanced
NEWS	31	Apr 14	MEDLINE Reload
NEWS	32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	33	Jun 13	Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS	34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	35	Apr 28	RDISCLOSURE now available on STN
NEWS	36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	38	May 15	Supporter information for ENCOMPAT and ENCOMPLIT updated
NEWS	39	May 16	CHEMREACT will be removed from STN

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NEWS 40 May 19 Simultaneous left and right truncation added to WSCA  
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and  
right truncation  
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB  
NEWS 43 Jun 06 PASCAL enhanced with additional data  
NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available  
NEWS 45 Jun 25 HSDB has been reloaded

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:00:33 ON 10 JUL 2003

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:00:38 ON 10 JUL 2003  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 8 JUL 2003 HIGHEST RN 544651-49-2  
DICTIONARY FILE UPDATES: 8 JUL 2003 HIGHEST RN 544651-49-2

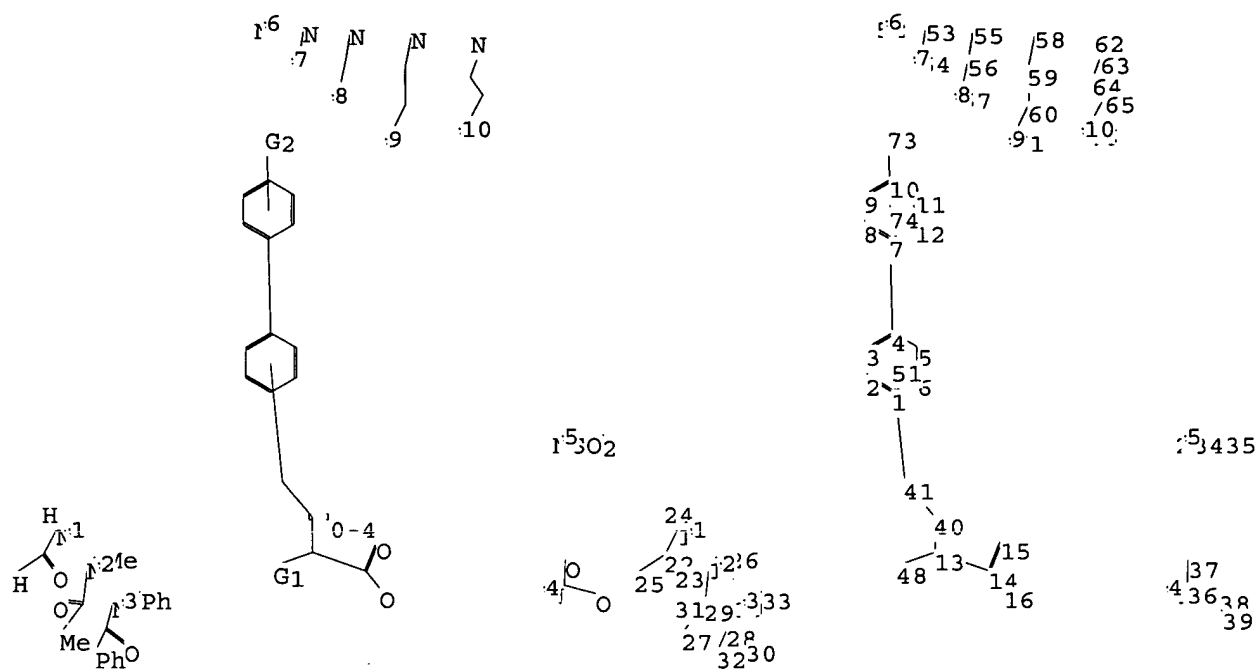
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>  
Uploading C:\Program Files\Stnexp\Queries\09868305.str



chain nodes :

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33  
34 36 37 38 40 41 48 52 53 54 55 56 57 58 59 60 61 62 63 64 65  
66 73

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

ring/chain nodes :

35 39

chain bonds :

4-7 13-14 13-40 13-48 14-15 14-16 17-22 17-24 18-26 18-29 19-28 19-33  
20-36 21-34 22-23 22-25 27-29 28-30 28-32 29-31 34-35 36-37 36-38 38-39  
40-41 53-54 55-56 56-57 58-59 59-60 60-61 62-63 63-64 64-65 65-66

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

13-48 14-15 14-16 17-22 18-29 19-28 20-36 21-34 22-23 28-30 29-31 36-37  
36-38 38-39 53-54 55-56 58-59 62-63

exact bonds :

4-7 13-14 13-40 17-24 18-26 19-33 22-25 27-29 28-32 34-35 40-41 56-57  
59-60 60-61 63-64 64-65 65-66

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1: [\*1], [\*2], [\*3], [\*4], [\*5]

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G2:[\*6],[\*7],[\*8],[\*9],[\*10]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS  
27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS  
35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 48:CLASS  
51:CLASS 52:CLASS 53:CLASS 54:CLASS 55:CLASS 56:CLASS 57:CLASS 58:CLASS  
59:CLASS 60:CLASS 61:CLASS 62:CLASS 63:CLASS 64:CLASS 65:CLASS 66:CLASS  
73:CLASS 74:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 13:01:56 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1489 TO ITERATE

67.2% PROCESSED 1000 ITERATIONS 15 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

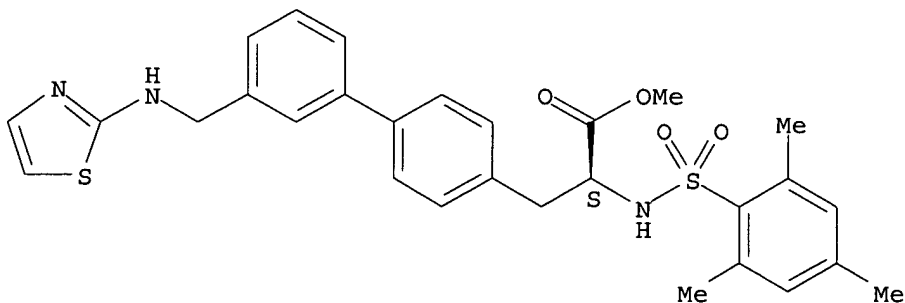
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 27466 TO 32094  
PROJECTED ANSWERS: 163 TO 729

L2 15 SEA SSS SAM L1

=> d scan

L2 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN [1,1'-Biphenyl]-4-propanoic acid, 3'-[(2-thiazolylamino)methyl]- $\alpha$ -  
[[2,4,6-trimethylphenyl)sulfonyl]amino]-, methyl ester, ( $\alpha$ S)- (9CI)  
MF C29 H31 N3 O4 S2

Absolute stereochemistry.



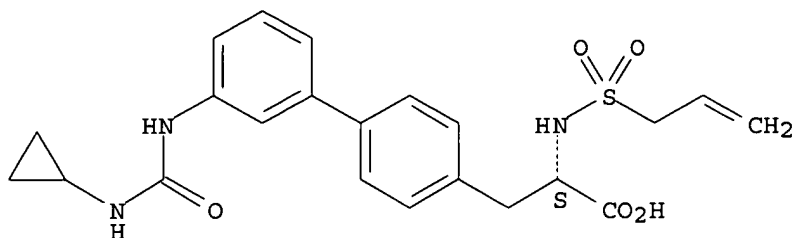
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

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L2 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN [1,1'-Biphenyl]-4-propanoic acid, 3'-[[[(cyclopropylamino) carbonyl] amino] -  
 $\alpha$ -[(2-propenylsulfonyl) amino]-, ( $\alpha$ S)- (9CI)  
MF C22 H25 N3 O5 S

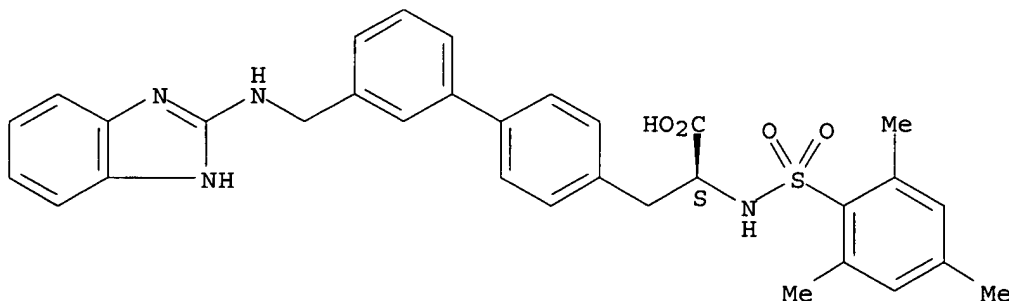
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN [1,1'-Biphenyl]-4-propanoic acid, 3'-[[[(1H-benzimidazol-2-ylamino)methyl] -  
 $\alpha$ -[(2,4,6-trimethylphenyl)sulfonyl] amino]-, ( $\alpha$ S)- (9CI)  
MF C32 H32 N4 O4 S

Absolute stereochemistry.

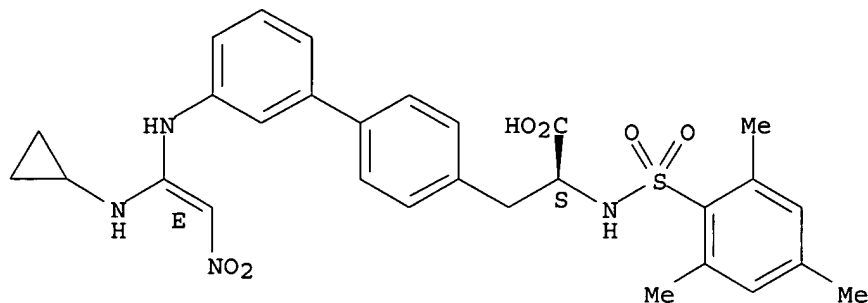


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

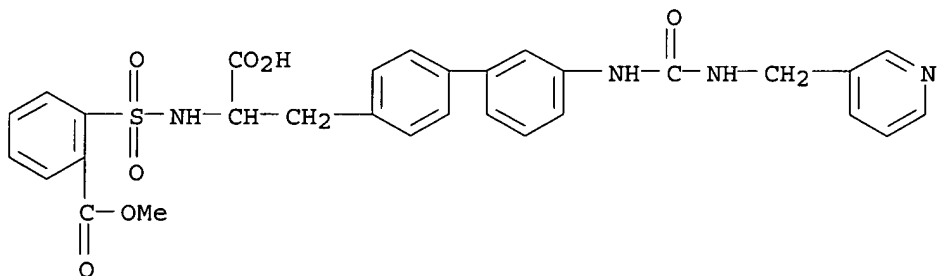
L2 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN [1,1'-Biphenyl]-4-propanoic acid, 3'-[[[(1E)-1-(cyclopropylamino)-2-  
nitroethenyl] amino]- $\alpha$ -[(2,4,6-trimethylphenyl)sulfonyl] amino]-,  
( $\alpha$ S)- (9CI)  
MF C29 H32 N4 O6 S

Absolute stereochemistry.  
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN [1,1'-Biphenyl]-4-propanoic acid,  $\alpha$ -[[[2-(methoxycarbonyl)phenyl]sulfonyl]amino]-3'-[[[(3-pyridinylmethyl)amino]carbonyl]amino]- (9CI)  
MF C30 H28 N4 O7 S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l1 full  
FULL SEARCH INITIATED 13:05:03 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 29507 TO ITERATE

100.0% PROCESSED 29507 ITERATIONS  
SEARCH TIME: 00.00.02

339 ANSWERS

L3 339 SEA SSS FUL L1

=> s l3 not trimethylphenyl  
44800 TRIMETHYLPHENYL  
L4 252 L3 NOT TRIMETHYLPHENYL

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=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.17	155.38

FILE 'CAOLD' ENTERED AT 13:05:41 ON 10 JUL 2003  
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FILE COVERS 1907-1966  
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> s l4  
L5 0 L4

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.40	155.78

FILE 'CAPLUS' ENTERED AT 13:05:50 ON 10 JUL 2003  
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FILE COVERS 1907 - 10 Jul 2003 VOL 139 ISS 2  
FILE LAST UPDATED: 9 Jul 2003 (20030709/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l4  
L6 32 L4

=> sort py l6  
SORT ENTIRE ANSWER SET? (Y)/N:.

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PROCESSING COMPLETED FOR L6  
L7 32 SORT L6 PY

=> d 1-32 cbib pi fhitr

L7 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS

1983:107039 Document No. 98:107039 X-ray crystal structure determination and synthesis of the new isonitrile-containing antibiotics, hazimycin factors 5 and 6. Wright, J. J. Kim; Cooper, Alan B.; McPhail, Andrew T.; Merrill, Yoon; Nagabhushan, Tattanahalli L.; Puar, Mohindar S. (Chem. Res., Schering-Plough Corp., Bloomfield, NJ, 07003, USA). Journal of the Chemical Society, Chemical Communications (20), 1188-90 (English) 1982. CODEN: JCCCAT. ISSN: 0022-4936.

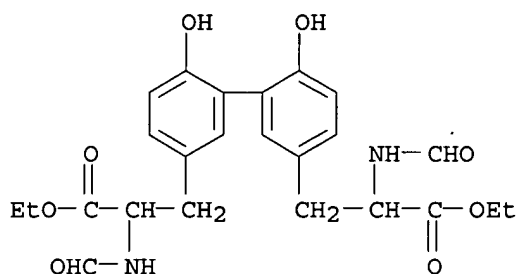
IT 84885-63-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as intermediate in preparation of hazimycin factors 5 and

6)

RN 84885-63-2 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha,\alpha'$ -bis(formylamino)-  
6,6'-dihydroxy-, diethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2003 ACS

1988:185265 Document No. 108:185265 Manufacture of a novel bioactive substance, aldostatin, with Pseudeurotium zonatum, and its use as an aldose reductase inhibitor in treatment of diabetes renalis patients. Yaginuma, Satoshi; Asahi, Akira; Takada, Masaki (Toyo Jozo Co., Ltd., Japan). Ger. Offen. DE 3706838 A1 19870910, 12 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1987-3706838 19870303. PRIORITY: JP 1986-45327 19860304.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3706838	A1	19870910	DE 1987-3706838	19870303
	DE 3706838	C2	19950524		
	JP 62205095	A2	19870909	JP 1986-45327	19860304
	JP 04057664	B4	19920914		
	US 4749571	A	19880607	US 1987-16327	19870219
	GB 2188047	A1	19870923	GB 1987-4253	19870224
	GB 2188047	B2	19891228		
	FR 2598085	A1	19871106	FR 1987-2946	19870304
	FR 2598085	B1	19881202		

IT 114137-09-6P

RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP  
(Preparation)  
(manufacture of, with Pseudeurotium, as aldose reductase inhibitor)

RN 114137-09-6 CAPLUS

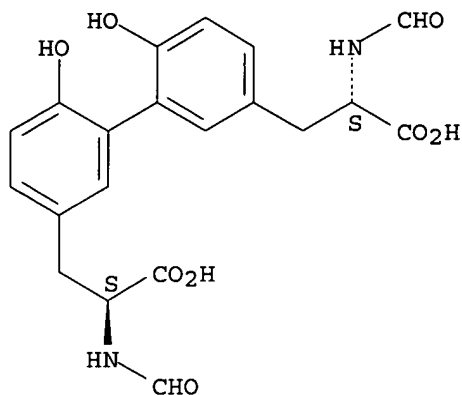
CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha,\alpha'$ -bis(formylamino)-



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6,6'-dihydroxy-, ( $\alpha$ S, $\alpha'$ S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

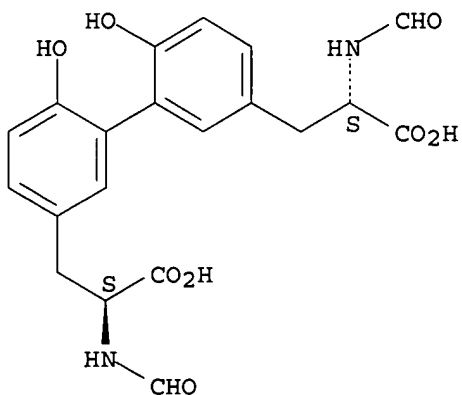


L7 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2003 ACS

1990:99250 Document No. 112:99250 Preparation of L-aldostatin (salts) by diformylation of L,L-3,3'-bityrosine. Yaginuma, Satoshi; Asahi, Teru; Mizuno, Kimio (Toyo Jozo Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01180862 A2 19890718 Heisei, 4 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1988-3649 19880111.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01180862	A2	19890718	JP 1988-3649	19880111
IT	114137-09-6P				
RL:	SPN (Synthetic preparation); PREP (Preparation) (preparation of, by formylation of bityrosine)				
RN	114137-09-6 CAPLUS				
CN	[1,1'-Biphenyl]-3,3'-dipropanoic acid, $\alpha,\alpha'$ -bis(formylamino)- 6,6'-dihydroxy-, ( $\alpha$ S, $\alpha'$ S)- (9CI) (CA INDEX NAME)				

Absolute stereochemistry.



L7 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2003 ACS

1990:20783 Document No. 112:20783 D-Aldostatin (salts) as aldose reductase inhibitors and their preparation. Yaginuma, Satoshi; Asahi, Teru; Mizuno, Kimio (Toyo Jozo Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01157943 A2

09/868,305 Thomas McKenzie

19890621 Heisei, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP  
1987-315642 19871214.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 01157943	A2	19890621	JP 1987-315642	19871214
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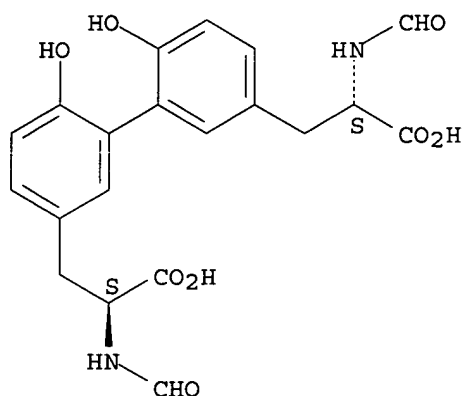
IT 114137-09-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as aldose reductase inhibitor)

RN 114137-09-6 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha,\alpha'$ -bis(formylamino)-  
6,6'-dihydroxy-, ( $\alpha S,\alpha' S$ )- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2003 ACS

1990:4120 Document No. 112:4120 Aldostatin, a novel aldose reductase inhibitor. Yaginuma, Satoshi; Asahi, Akira; Takada, Masaki; Hayashi, Mitsuo; Tsujino, Masatoshi; Mizuno, Kimio (Med. Res. Lab., Toyo Jozo Co., Ltd., Shizuoka, Japan). Novel Microb. Prod. Med. Agric., [Pap. Int. Conf. Biotechnol. Microb. Prod.], 1st, Meeting Date 1988, 127-33. Editor(s): Demain, Arnold L. Elsevier: Amsterdam, Neth. (English) 1989. CODEN: 56RDAV.

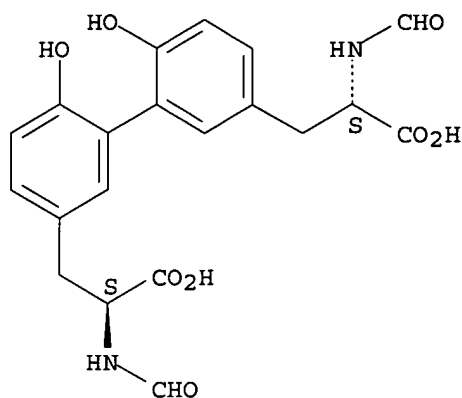
IT 114137-09-6, Aldostatin

RL: BIOL (Biological study)  
(from *Pseudeurotium zonatum*, isolation and structure and aldose reductase-inhibiting activity of)

RN 114137-09-6 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha,\alpha'$ -bis(formylamino)-  
6,6'-dihydroxy-, ( $\alpha S,\alpha' S$ )- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2003 ACS

1989:574664 Document No. 111:174664 Amino acids and peptides. 72.  
Cyclopeptides. 17. Synthesis of (S,S)-diisotyrosine and its  
incorporation into an ansa-tripeptide. Schmidt, Ulrich; Meyer, Regina;  
Leitenberger, Volker; Lieberknecht, Albrecht (Inst. Org. Chem. Biochem.,  
Univ. Stuttgart, Stuttgart, D-7000/80, Fed. Rep. Ger.). Angewandte  
Chemie, 101(7), 946-8 (German) 1989. CODEN: ANCEAD. ISSN: 0044-8249.  
OTHER SOURCES: CASREACT 111:174664.

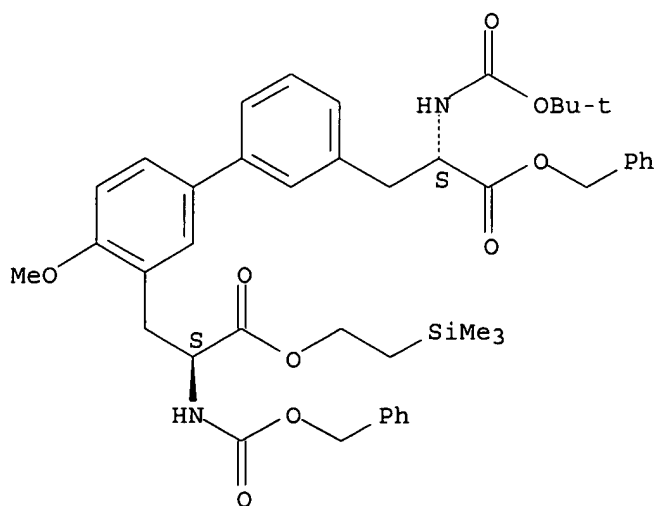
IT 121125-12-0

RL: RCT (Reactant); RACT (Reactant or reagent)  
(deblocking and peptide coupling of, with alanine derivs.)

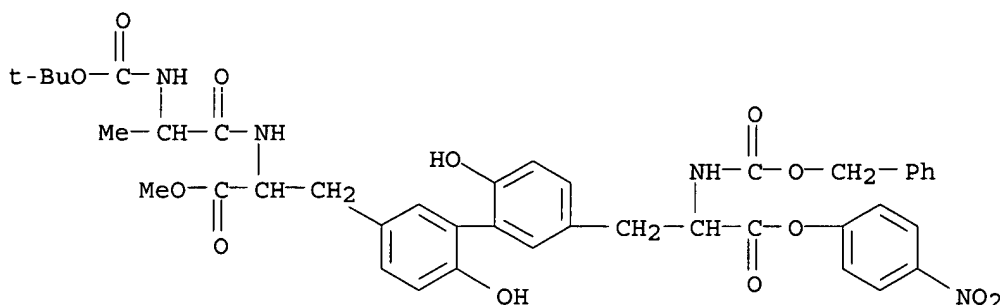
RN 121125-12-0 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha'$ -[[[1,1-  
dimethylethoxy)carbonyl]amino]-4-methoxy- $\alpha'$ -  
[[[phenylmethoxy)carbonyl]amino]-,  $\alpha'$ -(phenylmethyl)  
 $\alpha$ -[2-(trimethylsilyl)ethyl] ester, [S-(R\*,R\*)]- (9CI) (CA INDEX  
NAME)

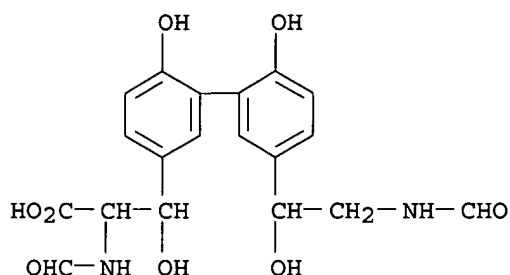
Absolute stereochemistry.



L7 ANSWER 7 OF 32 CAPLUS COPYRIGHT 2003 ACS



Page 12



L7 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2003 ACS

1991:656592 Document No. 115:256592 A short synthesis of a biphenomycin B analog via a double Heck coupling procedure. Carlstroem, Anne Sofie; Frejd, Torbjorn (Chem. Cent., Lund Inst. Technol., Lund, S-22100, Swed.). Journal of the Chemical Society, Chemical Communications (17), 1216-17 (English) 1991. CODEN: JCCCAT. ISSN: 0022-4936.

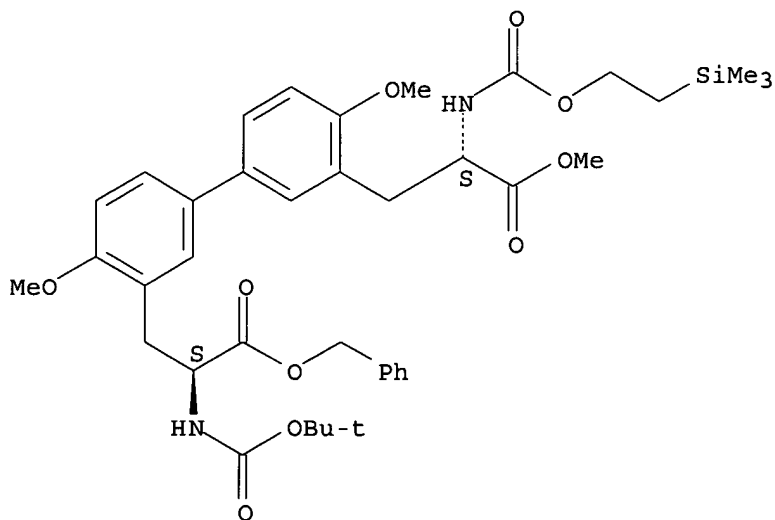
IT 136896-87-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and deprotection of)

RN 136896-87-2 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha$ -[[[(1,1-dimethylethoxy)carbonyl]amino]-4,4'-dimethoxy- $\alpha'$ -[[[2-(trimethylsilyl)ethoxy]carbonyl]amino]-,  $\alpha'$ -methyl  $\alpha$ -(phenylmethyl) ester, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2003 ACS

1991:559729 Document No. 115:159729 The synthesis of biphenomycin B [Erratum to document cited in CA114(25):247764b]. Schmidt, Ulrich; Meyer, Regina; Leitenberger, Volker; Lieberknecht, Albrecht; Griesser, Helmut (Inst. Org. Chem. Isotopenforsch., Univ. Stuttgart, Stuttgart, 7000/80, Germany). Journal of the Chemical Society, Chemical Communications (10), 744

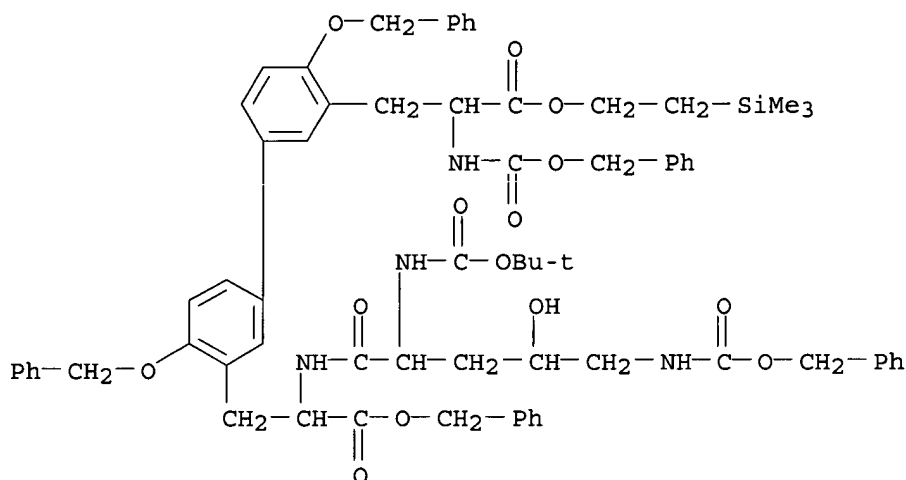
(English) 1991. CODEN: JCCCAT. ISSN: 0022-4936.

IT 134038-85-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and ester exchange of (Erratum))

RN 134038-85-0 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha$ -[[2-[[[(1,1-dimethylethoxy)carbonyl]amino]-4-hydroxy-1-oxo-5-[[[(phenylmethoxy)carbonyl]amino]pentyl]amino]-4,4'-bis(phenylmethoxy)- $\alpha'$ -[[[(phenylmethoxy)carbonyl]amino]-,  $\alpha$ -(phenylmethyl) $\alpha'$ -[2-(trimethylsilyl)ethyl] ester, [2S-[1[R\*(R\*)],4S\*]]- (9CI) (CA INDEX NAME)



L7 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2003 ACS

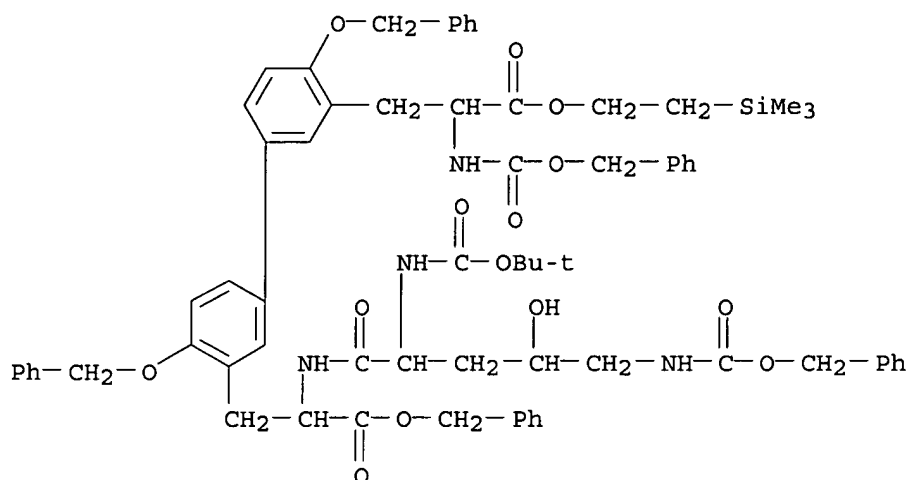
1991:247764 Document No. 114:247764 The synthesis of biphenomycin B. Schmidt, Ulrich; Meyer, Regina; Leitenberger, Volker; Lieberknecht, Albrecht; Griesser, Helmut (Inst. Org. Chem. Isotopenforsch., Univ. Stuttgart, Stuttgart, 7000/80, Germany). Journal of the Chemical Society, Chemical Communications (5), 275-7 (English) 1991. CODEN: JCCCAT. ISSN: 0022-4936. OTHER SOURCES: CASREACT 114:247764.

IT 134038-85-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and ester exchange of)

RN 134038-85-0 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha$ -[[2-[[[(1,1-dimethylethoxy)carbonyl]amino]-4-hydroxy-1-oxo-5-[[[(phenylmethoxy)carbonyl]amino]pentyl]amino]-4,4'-bis(phenylmethoxy)- $\alpha'$ -[[[(phenylmethoxy)carbonyl]amino]-,  $\alpha$ -(phenylmethyl) $\alpha'$ -[2-(trimethylsilyl)ethyl] ester, [2S-[1[R\*(R\*)],4S\*]]- (9CI) (CA INDEX NAME)



L7 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2003 ACS

1991:225300 Document No. 114:225300 WF-2421, a new aldose reductase inhibitor produced from a fungus, *Hemicola grisea*. Nishikawa, Motoaki; Tsurumi, Yasuhisa; Murai, Hidetsugu; Yoshida, Keizo; Okamoto, Masanori; Takase, Shigehiro; Tanaka, Hirokazu; Hirota, Hiroshi; Hashimoto, Masashi; Kohsaka, Masanobu (Explor. Res. Lab., Fujisawa Pharm. Co., Ltd., Tsukuba, 300-26, Japan). *Journal of Antibiotics*, 44(2), 130-5 (English) 1991. CODEN: JANTAJ. ISSN: 0021-8820.

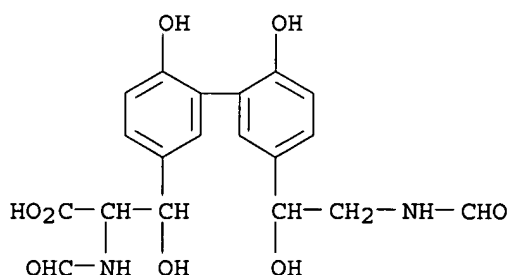
IT 128429-19-6, WF 2421

RL: BIOL (Biological study)

(aldose reductase inhibitor, from *Hemicola grisea*)

RN 128429-19-6 CAPLUS

CN [1,1'-Biphenyl]-3-propanoic acid,  $\alpha$ -(formylamino)-5'-[2-(formylamino)-1-hydroxyethyl]- $\beta$ ,2',6-trihydroxy- (9CI) (CA INDEX NAME)



L7 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2003 ACS

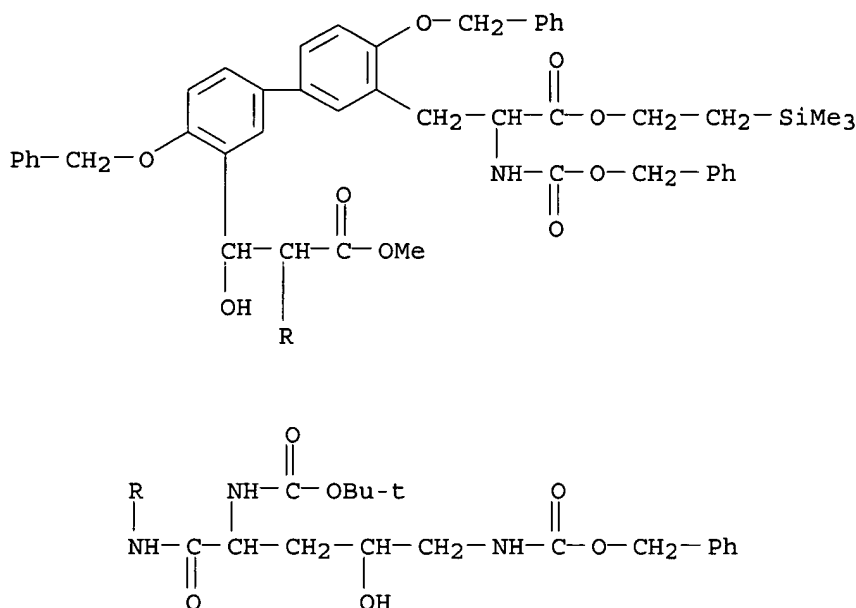
1993:169567 Document No. 118:169567 Amino acids and peptides. 88. Synthesis of biologically active cyclopeptides. 26. Total synthesis of the biphenomycins. V. Synthesis of biphenomycin A. Schmidt, Ulrich; Leitenberger, Volker; Griesser, Helmut; Schmidt, Johannes; Meyer, Regina (Inst. Org. Chem. Isotopenforsch., Univ. Stuttgart, Stuttgart, D-7000, Germany). *Synthesis* (12), 1248-54 (English) 1992. CODEN: SYNTBF. ISSN: 0039-7881. OTHER SOURCES: CASREACT 118:169567.

IT 146388-28-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and desilylation)

RN 146388-28-5 CAPLUS

CN L-Serine, N-[N2-[(1,1-dimethylethoxy)carbonyl]-erythro-4-hydroxy-N5-  
[(phenylmethoxy)carbonyl]-L-ornithyl]-3-[3'-[3-oxo-2-  
[(phenylmethoxy)carbonyl]amino]-3-[2-(trimethylsilyl)ethoxy]propyl]-4,4'-  
bis(phenylmethoxy)[1,1'-biphenyl]-3-yl]-, methyl ester, [R-(R\*,S\*)]- (9CI)  
(CA INDEX NAME)



L7 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2003 ACS

1993:60099 Document No. 118:60099 Amino acids and peptides. 84. Synthesis of biologically active cyclopeptides. 24. Total synthesis of the biphenomycins. III. Synthesis of biphenomycin B. Schmidt, Ulrich; Meyer, Regina; Leitenberger, Volker; Griesser, Helmut; Lieberknecht, Albrecht (Inst. Org. Chem. Isotopenforsch., Univ. Stuttgart, Stuttgart, D-7000/80, Germany). Synthesis (10), 1025-30 (English) 1992. CODEN: SYNTBF. ISSN: 0039-7881. OTHER SOURCES: CASREACT 118:60099.

IT 134038-84-9P

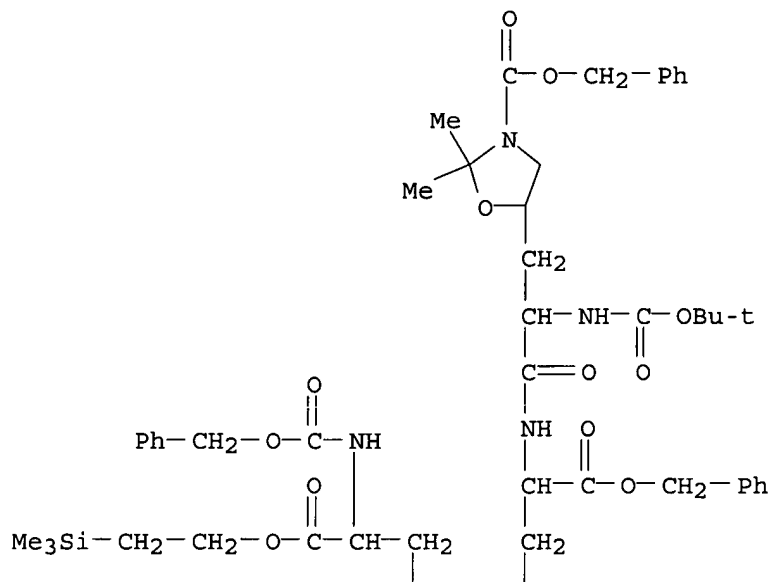
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and acidic ring cleavage of)

RN 134038-84-9 CAPLUS

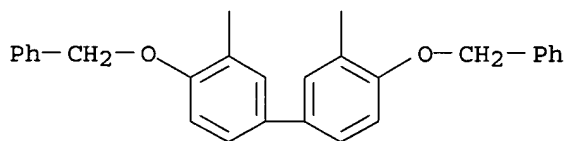
CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha$ -[[2-[[[(1,1-dimethylethoxy)carbonyl]amino]-3-[2,2-dimethyl-3-[(phenylmethoxy)carbonyl]-5-oxazolidinyl]-1-oxopropyl]amino]-4,4'-bis(phenylmethoxy)- $\alpha'$ -[[[(phenylmethoxy)carbonyl]amino]-,  $\alpha$ -(phenylmethyl) $\alpha'$ -[2-(trimethylsilyl)ethyl] ester, [5R-[5R\*[S\*[R\*(S\*)]]]]- (9CI)  
(CA INDEX NAME)



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L7 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2003 ACS

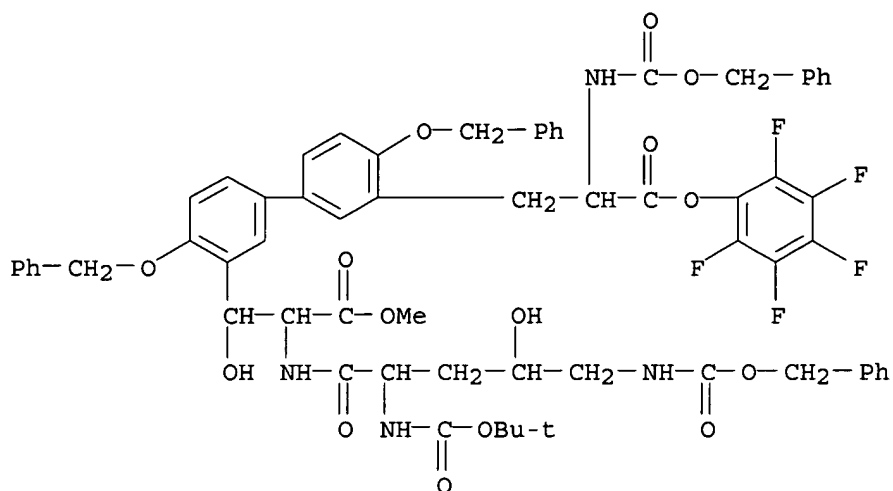
1992:551328 Document No. 117:151328 Amino acids and peptides. 83. The synthesis of biphenomycin A. Schmidt, Ulrich; Leitenberger, Volker; Meyer, Regina; Griesser, Helmut (Inst. Org. Chem. Isotopenforsch., Univ. Stuttgart, Stuttgart, 7000/80, Germany). Journal of the Chemical Society, Chemical Communications (13), 951-3 (English) 1992. CODEN: JCCCAT. ISSN: 0022-4936. OTHER SOURCES: CASREACT 117:151328.

IT 143164-88-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and macrocyclization of)

RN 143164-88-9 CAPLUS

CN L-Serine, N-[N2-[(1,1-dimethylethoxy)carbonyl]-threo-4-hydroxy-N5-[(phenylmethoxy)carbonyl]-L-ornithyl]-3-[3'-[3-oxo-3-(pentafluorophenoxy)-2-[[[(phenylmethoxy)carbonyl]amino]propyl]-4,4'-bis(phenylmethoxy)[1,1'-biphenyl]-3-yl]-, methyl ester, [R-(R\*,S\*)]- (9CI) (CA INDEX NAME)



L7 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2003 ACS

1992:129587 Document No. 116:129587 Application of the Suzuki biphenyl synthesis to the natural products biphenomycin and vancomycin. Brown, Allan G.; Crimmin, Michael J.; Edwards, Peter D. (Res. Div., SmithKline Beecham Pharm., Betchworth/Surrey, RH3 7AJ, UK). Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1), 123-30 (English) 1992. CODEN: JCPRB4. ISSN: 0300-922X. OTHER SOURCES: CASREACT 116:129587.

IT 139517-85-4P

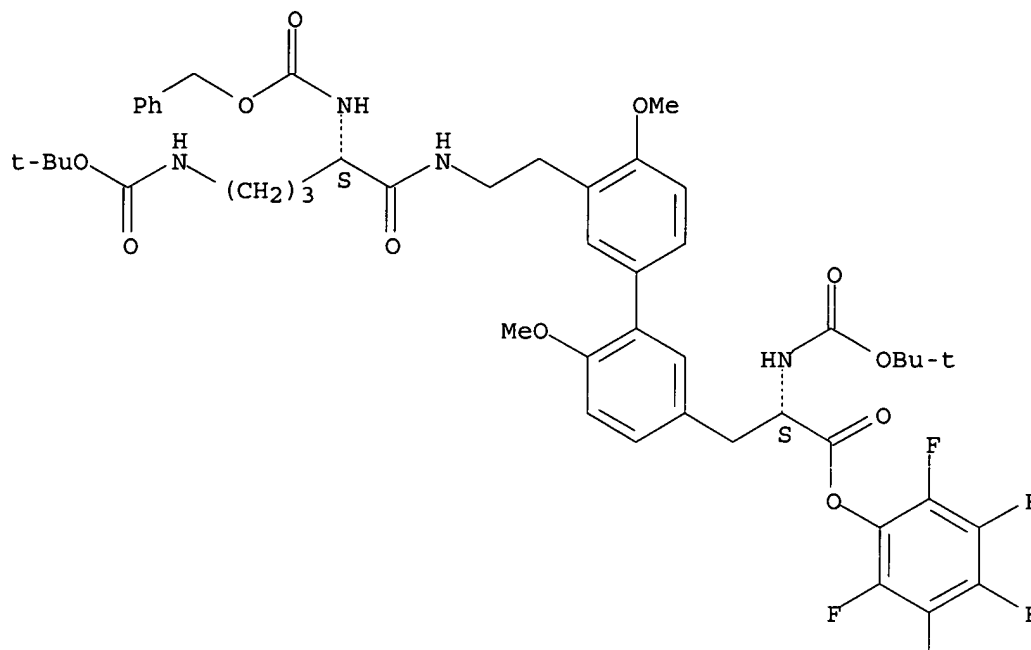
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclization of)

RN 139517-85-4 CAPLUS

CN [1,1'-Biphenyl]-3-propanoic acid,  $\alpha$ -[[[(1,1-dimethylethoxy)carbonyl]amino]-3'-[2-[[5-[[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxo-2-[[[(phenylmethoxy)carbonyl]amino]pentyl]amino]ethyl]-4',6-dimethoxy-, pentafluorophenyl ester, [S-(R\*,R\*)]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

F

L7 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2003 ACS

1995:220084 Document No. 122:106494 Syntheses of isodityrosine, dityrosine and related compounds by phenolic oxidation of tyrosine and phenylglycine derivatives using an electrochemical method. Nishiyama, Shigeru; Kim, Moon Hwan; Yamamura, Shosuke (Dep. Chem., Keio Univ., Yokohama, 223, Japan). Tetrahedron Letters, 35(45), 8397-400 (English) 1994. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT 122:106494. Publisher: Elsevier.

IT 160538-41-0P

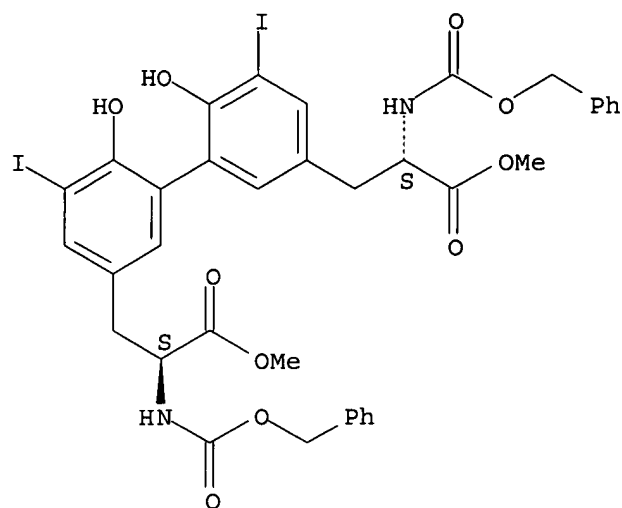
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of isodityrosine, dityrosine, and related compds. by phenolic electrochem. oxidation of dihalotyrosine and -phenylglycine derivs.)

RN 160538-41-0 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid, 6,6'-dihydroxy-5,5'-diiodo- $\alpha,\alpha'$ -bis[[ (phenylmethoxy)carbonyl]amino]-, dimethyl ester, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2003 ACS

1996:445595 Document No. 125:137462 N,N'-bisformyl dityrosine is an in vivo precursor of the yeast ascospore wall. Briza, Peter; Kalchhauser, Hermann; Pittenauer, Ernst; Allmaier, Guenter; Breitenbach, Michael (Institut Genetik und Allgemeine Biologie, Universitaet Salzburg, Salzburg, A-5020, Austria). European Journal of Biochemistry, 239(1), 124-131 (English) 1996. CODEN: EJBCAI. ISSN: 0014-2956. Publisher: Springer.

IT 179555-54-5P

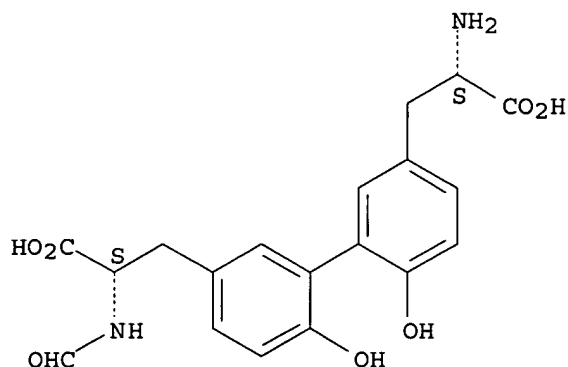
RL: BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process)

(N,N'-bisformyl dityrosine is in vivo precursor of yeast ascospore wall)

RN 179555-54-5 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha$ -amino- $\alpha'$ -(formylamino)-6,6'-dihydroxy-, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2003 ACS

1997:440050 Document No. 127:66223 Preparation of urea moiety-containing

peptide derivatives as neutral endopeptidase and angiotensin converting enzyme inhibitors. Nagano, Masanobu; Takenaka, Yasuhei; Kato, Takeshi (Fujisawa Pharmaceutical Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09118662 A2 19970506 Heisei, 51 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-237543 19960909. PRIORITY: GB 1995-18553 19950911. PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 09118662 A2 19970506 JP 1996-237543 19960909

IT 191426-70-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

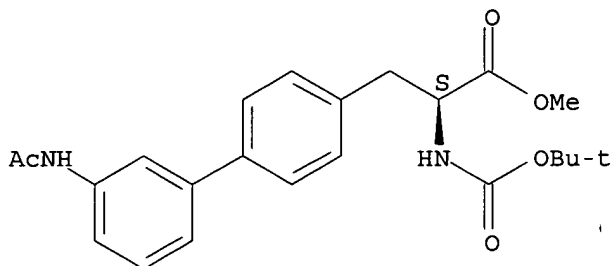
(preparation of urea moiety-containing peptide derivs. as neutral endopeptidase

and angiotensin converting enzyme inhibitors)

RN 191426-70-7 CAPLUS

CN [1,1'-Biphenyl]-4-propanoic acid, 3'-(acetylamino)- $\alpha$ -[[1,1-dimethylethoxy)carbonyl]amino]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2003 ACS

1998:773073 Document No. 130:95806 Phenyltrisalalanine: a new, C3-symmetric, trifunctional amino acid. Ritzen, Andreas; Basu, Basudeb; Wallberg, Andreas; Frejd, Torbjorn (Organic Chemistry 1, Department of Chemistry, Lund University, Lund, SE-221 00, Swed.). Tetrahedron: Asymmetry, 9(19), 3491-3496 (English) 1998. CODEN: TASYE3. ISSN: 0957-4166. Publisher: Elsevier Science Ltd..

IT 219583-78-5P

RL: BYP (Byproduct); PREP (Preparation)

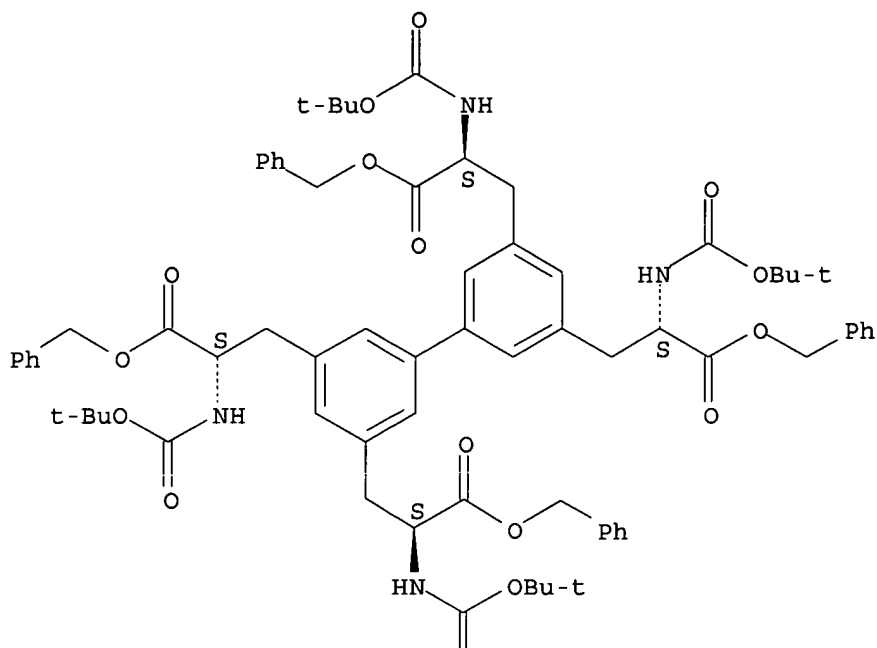
(synthesis of derivs. of phenyltrisalalanine, a new, trifunctional, C3-sym. amino acid)

RN 219583-78-5 CAPLUS

CN [1,1'-Biphenyl]-3,3',5,5'-tetrapropanoic acid,  $\alpha, \alpha', \alpha'', \alpha'''$ -tetrakis[[1,1-dimethylethoxy)carbonyl]amino]-, tetrakis(phenylmethyl) ester, ( $\alpha S, \alpha' S, \alpha'' S, \alpha''' S$ )- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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L7 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2003 ACS

1998:620899 Document No. 130:52709 Preparation of novel HIV-protease inhibitors. Reetz, Manfred T.; Merk, Claudia; Mehler, Gerlinde (Max-Planck-Institut für Kohlenforschung, Mulheim/Ruhr, D-45470, Germany). Chemical Communications (Cambridge) (19), 2075-2076 (English) 1998. CODEN: CHCOFS. ISSN: 1359-7345. Publisher: Royal Society of Chemistry.

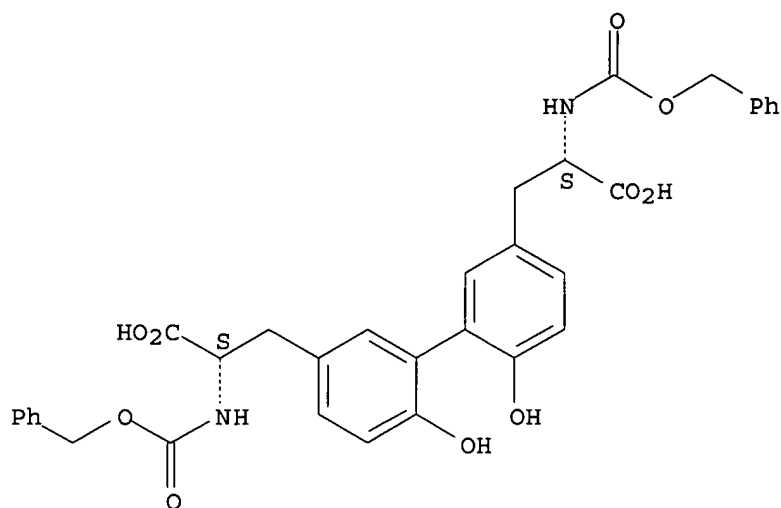
IT 217327-62-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (preparation of novel HIV-protease inhibitors based on binaphthol, biphenol or embonic acid moieties attached to valines)

RN 217327-62-3 CAPLUS

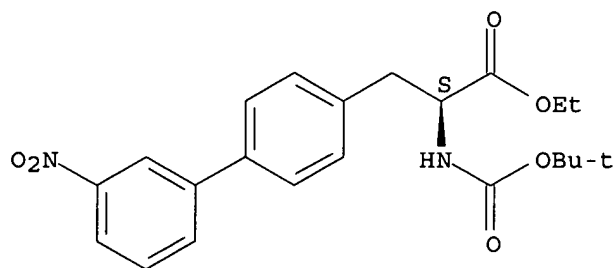
CN [1,1'-Biphenyl]-3,3'-dipropionic acid, 6,6'-dihydroxy- $\alpha,\alpha'$ -bis[[ (phenylmethoxy)carbonyl]amino]-, ( $\alpha S,\alpha'S$ )-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2003 ACS  
 1998:348077 Document No. 129:81927 Synthesis of 4-substituted phenylalanines by cross-coupling reactions: extension of the methodology to aryl chlorides. Firooznia, Fariborz; Gude, Candido; Chan, Kenneth; Satoh, Yoshitaka (Metabolic and Cardiovascular Diseases Research, Novartis Pharmaceuticals Corporation, Summit, NJ, 07901, USA). Tetrahedron Letters, 39(23), 3985-3988 (English) 1998. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT 129:81927. Publisher: Elsevier Science Ltd..  
 IT **209250-02-2P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of substituted phenylalanines by cross-coupling of boronophenylalanine derivs. with aryl chlorides)  
 RN 209250-02-2 CAPLUS  
 CN [1,1'-Biphenyl]-4-propanoic acid,  $\alpha$ -[[[(1,1-dimethylethoxy)carbonyl]amino]-3'-nitro-, ethyl ester, ( $\alpha$ S)- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2003 ACS  
 1998:171987 Document No. 128:244304 Synthesis of optically active arylene bis-alanine derivatives carrying orthogonal protecting groups. Ritzen, Andreas; Basu, Basudeb; Chattopadhyay, Shital K.; Dossa, Fahreen; Frejd, Torbjorn (Department of Chemistry, Organic Chemistry 1, Lund University,

Lund, SE-221 00, Swed.). Tetrahedron: Asymmetry, 9(3), 503-512 (English)  
1998. CODEN: TASYE3. ISSN: 0957-4166. OTHER SOURCES: CASREACT  
128:244304. Publisher: Elsevier Science Ltd..

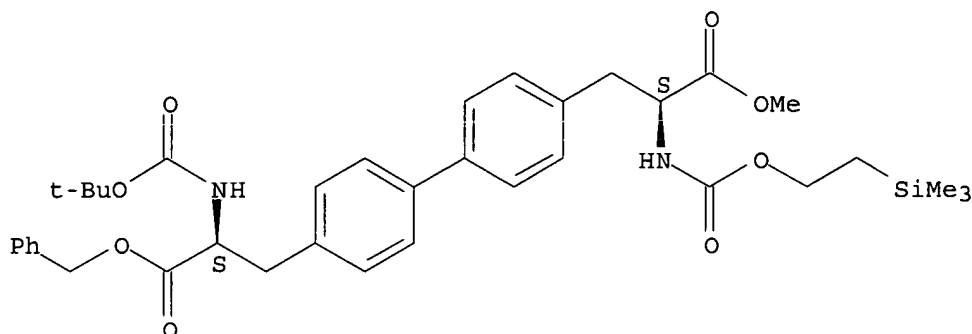
IT 205063-86-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of optically active arylene bisalanine derivs. carrying  
orthogonal protecting groups)

RN 205063-86-1 CAPLUS

CN [1,1'-Biphenyl]-4,4'-dipropanoic acid,  $\alpha$ -[[[1,1-  
dimethylethoxy)carbonyl]amino]- $\alpha'$ -[[[2-(trimethylsilyl)ethoxy]carbon  
yl]amino]-,  $\alpha'$ -methyl  $\alpha$ -(phenylmethyl) ester, [S-(R\*,R\*)]-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L7 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2003 ACS

2000:421093 Document No. 133:43809 Preparation of new biphenyl and  
biphenyl-analogous compounds as integrin antagonists. Albers, Markus;  
Urbahns, Klaus; Vaupel, Andrea; Harter, Michael; Schmidt, Delf;  
Stelte-ludwig, Beatrix; Gerdes, Christoph; Stahl, Elke; Keldenich, Jorg;  
Bruggemeier, Ulf; Lustig, Klemens (Bayer Aktiengesellschaft, Germany; et  
al.). PCT Int. Appl. WO 2000035864 A1 20000622, 360 pp. DESIGNATED  
STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,  
CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,  
IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,  
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,  
TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,  
TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA,  
GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English).  
CODEN: PIXXD2. APPLICATION: WO 1999-EP9843 19991213. PRIORITY: US  
1998-213381 19981216.

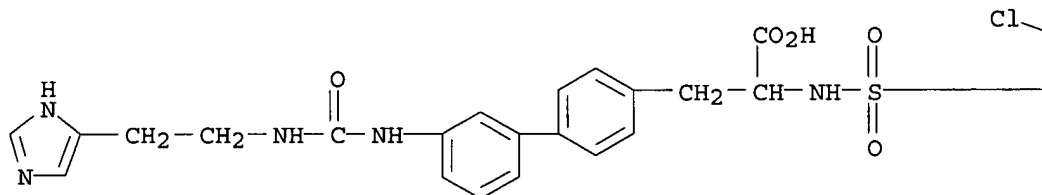
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1140809	A1	20011010	EP 1999-967934	19991213
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

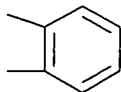


IE, SI, LT, LV, FI, RO  
 BR 9916367 A 20011030 BR 1999-16367 19991213  
 EE 200100317 A 20020815 EE 2001-317 19991213  
 JP 2002532465 T2 20021002 JP 2000-588126 19991213  
 NZ 512339 A 20030328 NZ 1999-512339 19991213  
 BG 105574 A 20020131 BG 2001-105574 20010607  
 NO 2001002975 A 20010813 NO 2001-2975 20010615  
 HR 2001000531 A1 20020831 HR 2001-531 20010716  
 IT **276257-88-6P**  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of new biphenyl and biphenyl-analogous compds. as integrin antagonists)  
 RN 276257-88-6 CAPLUS  
 CN [1,1'-Biphenyl]-4-propanoic acid,  $\alpha$ -[[[2-chlorophenyl)sulfonyl]amino]-3'-[[[2-(1H-imidazol-4-yl)ethyl]amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

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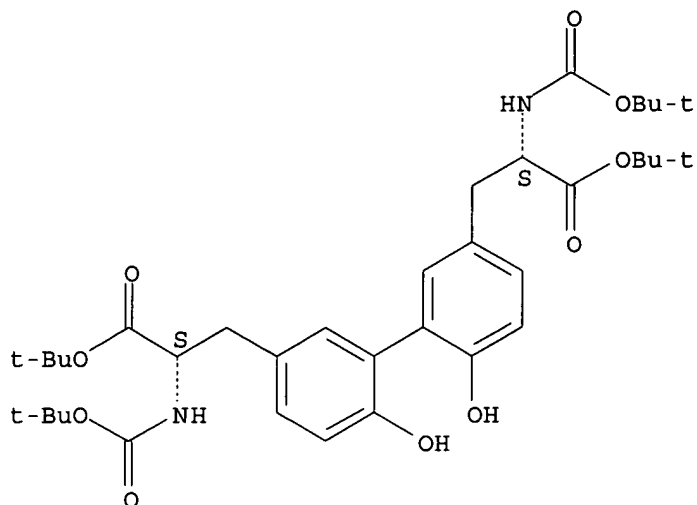


PAGE 1-B



L7 ANSWER 25 OF 32 CAPLUS COPYRIGHT 2003 ACS  
 2001:901150 Document No. 136:350510 (-)-Epicatechin Inhibits Nitration and Dimerization of Tyrosine in Hydrophilic as Well as Hydrophobic Environments. Schroeder, Peter; Zhang, Hao; Klotz, Lars-Oliver; Kalyanaraman, Balaraman; Sies, Helmut (Institut fuer Physiologische Chemie I, Heinrich-Heine-Universitaet Duesseldorf, Duesseldorf, Germany). Biochemical and Biophysical Research Communications, 289(5), 1334-1338 (English) 2001. CODEN: BBRCA9. ISSN: 0006-291X. Publisher: Academic Press.  
 IT **351534-62-8**  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 ((-)-epicatechin inhibits nitration and dimerization of tyrosine in hydrophilic as well as hydrophobic environments)  
 RN 351534-62-8 CAPLUS  
 CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha,\alpha'$ -bis[[[1,1-dimethylethoxy)carbonyl]amino]-6,6'-dihydroxy-, bis(1,1-dimethylethyl) ester, ( $\alpha$ S, $\alpha'$ S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2003 ACS

2001:390664 Document No. 135:133712 Nitration and Oxidation of a Hydrophobic Tyrosine Probe by Peroxynitrite in Membranes: Comparison with Nitration and Oxidation of Tyrosine by Peroxynitrite in Aqueous Solution. Zhang, Hao; Joseph, Joy; Feix, Jimmy; Hogg, Neil; Kalyanaraman, B. (Biophysics Research Institute and Free Radical Research Center, Medical College of Wisconsin, Milwaukee, WI, 53226, USA). Biochemistry, 40(25), 7675-7686 (English) 2001. CODEN: BICHAW. ISSN: 0006-2960. Publisher: American Chemical Society.

IT 351534-62-8P

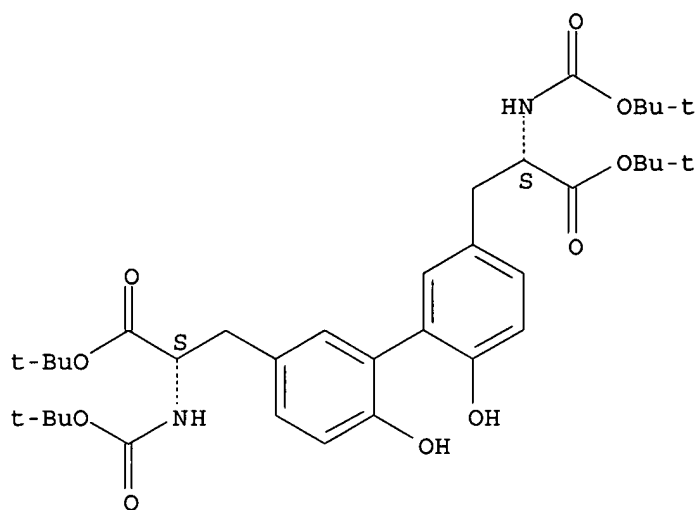
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

(nitration and oxidation of a hydrophobic tyrosine probe by peroxynitrite in membranes: comparison with nitration and oxidation of tyrosine by peroxynitrite in aqueous solution)

RN 351534-62-8 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha,\alpha'$ -bis[[(1,1-dimethylethoxy)carbonyl]amino]-6,6'-dihydroxy-, bis(1,1-dimethylethyl) ester, ( $\alpha S,\alpha'S$ )- (9CI) (CA INDEX NAME)

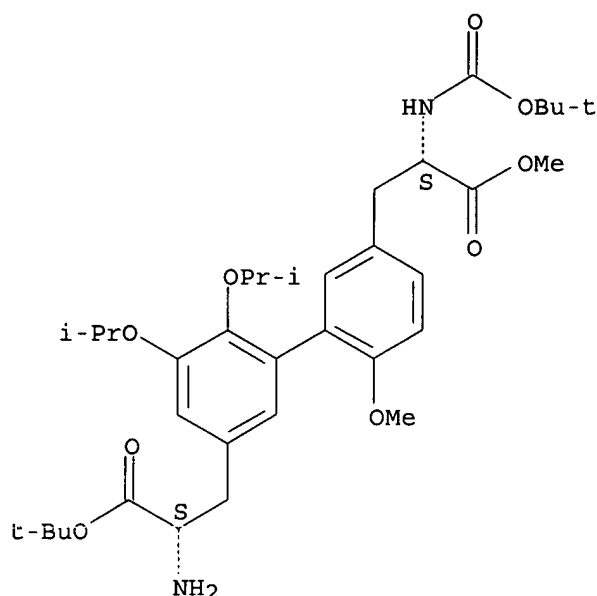
Absolute stereochemistry.



L7 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2003 ACS  
 2001:381070 Document No. 135:137701 Studies on the Total Synthesis of RP  
 66453: Synthesis of Fully Functionalized 15-Membered Biaryl-Containing  
 Macrocyclic. Boissard, Sabine; Carbonnelle, Anny-Claude; Zhu, Jieping  
 (Institut de Chimie des Substances Naturelles, CNRS, Gif-sur-Yvette,  
 91198, Fr.). Organic Letters, 3(13), 2061-2064 (English) 2001. CODEN:  
 ORLEF7. ISSN: 1523-7060. OTHER SOURCES: CASREACT 135:137701. Publisher:  
 American Chemical Society.

IT 351442-24-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (total synthesis of the fully functionalized biaryl, macrocyclic  
 component of RP-66453)  
 RN 351442-24-5 CAPLUS  
 CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha$ -amino- $\alpha'$ -[[1,1-  
 dimethylethoxy)carbonyl]amino]-6'-methoxy-5,6-bis(1-methylethoxy)-,  
 $\alpha$ -(1,1-dimethylethyl)  $\alpha'$ -methyl ester, ( $\alpha$ S, $\alpha'$ S)-  
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 28 OF 32 CAPLUS COPYRIGHT 2003 ACS

2001:185604 Document No. 134:237346 Preparation of peptidyl camptothecin conjugates as antitumor agents. Lerchen, Hans-Georg; Baumgarten, Joerg; Brueggemeier, Ulf; Albers, Markus; Schoop, Andreas; Schulze, Thomas (Bayer Aktiengesellschaft, Germany). PCT Int. Appl. WO 2001017563 A2 20010315, 239 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP8361 20000828. PRIORITY: US 1999-392167 19990908; US 2000-606772 20000629.

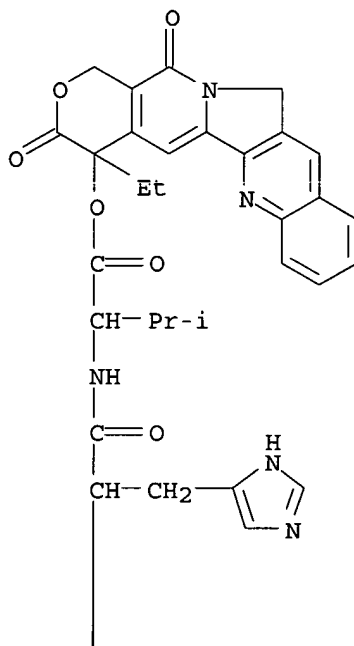
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001017563	A2	20010315	WO 2000-EP8361	20000828
WO 2001017563	A3	20020711		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000013883	A	20020507	BR 2000-13883	20000828
EP 1235595	A2	20020904	EP 2000-965901	20000828
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003508497	T2	20030304	JP 2001-521351	20000828
IT 330154-90-0P				
RL: BAC (Biological activity or effector, except adverse); BSU (Biological				

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of peptidyl camptothecin conjugates as antitumor agents)

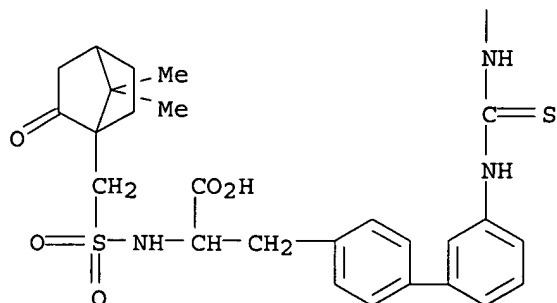
RN 330154-90-0 CAPLUS

CN L-Valine, N-[[[4'-[(2S)-2-carboxy-2-[[[(1S,4R)-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methyl]sulfonyl]amino]ethyl][1,1'-biphenyl]-3-yl]amino]thioxomethyl]-L-histidyl-, 2-[(4S)-4-ethyl-3,4,12,14-tetrahydro-3,14-dioxo-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinolin-4-yl] ester (9CI)  
 (CA INDEX NAME)

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L7 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2003 ACS

2001:32404 Document No. 134:208127 Oxidative phenol coupling - tyrosine dimers and libraries containing tyrosyl peptide dimers. Eickhoff, H.; Jung, G.; Rieker, A. (Institut fur Organische Chemie, Universitat

Tubingen, Tubingen, 72076, Germany). Tetrahedron, 57(2), 353-364  
(English) 2001. CODEN: TETRAB. ISSN: 0040-4020. Publisher: Elsevier  
Science Ltd..

IT 329065-46-5P

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

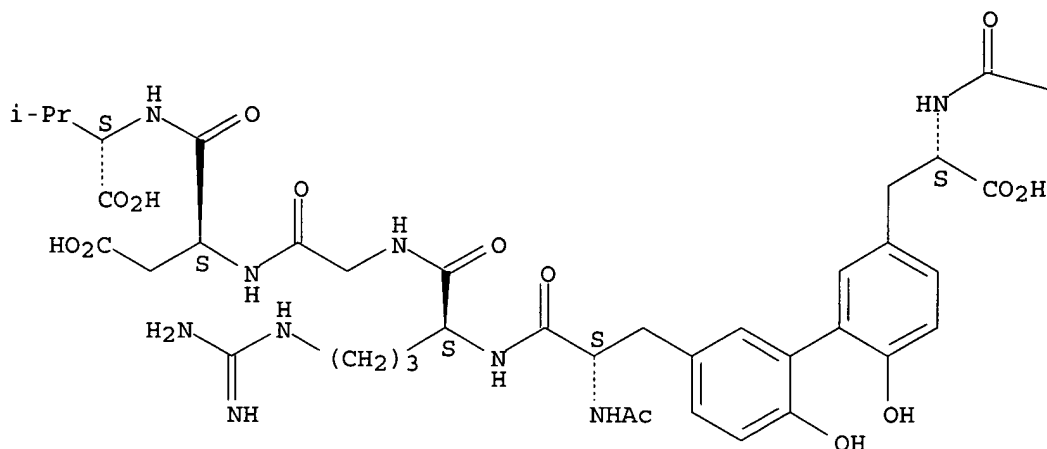
(oxidative phenol coupling to form tyrosine dimers and libraries containing tyrosyl peptide dimers)

RN 329065-46-5 CAPLUS

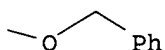
CN L-Valine, N-acetyl-3-[5'-[(2S)-2-carboxy-2-[[ (phenylmethoxy) carbonyl] amino  
]ethyl]-2',6-dihydroxy[1,1'-biphenyl]-3-yl]-L-alanyl-L-arginylglycyl-L-  
α-aspartyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L7 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2003 ACS

2002:794732 Document No. 138:69616 Dtrlp, a multidrug resistance transporter of the major facilitator superfamily, plays an essential role in spore wall maturation in *Saccharomyces cerevisiae*. Felder, Thomas; Bogengruber, Edith; Tenreiro, Sandra; Ellinger, Adi; Sa-Correia, Isabel; Briza, Peter (Institut fur Genetik und Allgemeine Biologie, Universitat Salzburg, Salzburg, A-5020, Austria). Eukaryotic Cell, 1(5), 799-810 (English) 2002. CODEN: ECUEA2. ISSN: 1535-9778. Publisher: American Society for Microbiology.

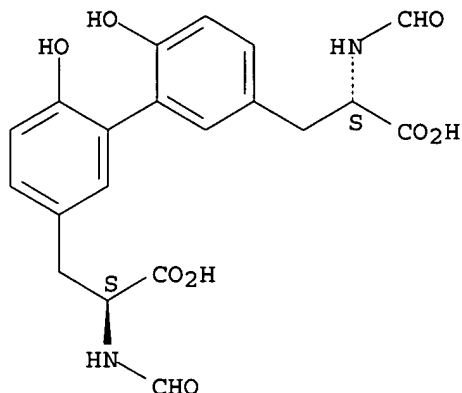
IT 114137-09-6

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(multidrug resistance transporter Dtr1p plays an essential role in  
spore wall maturation in *Saccharomyces cerevisiae*)

RN 114137-09-6 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha,\alpha'$ -bis(formylamino)-6,6'-dihydroxy-, ( $\alpha S,\alpha' S$ )- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 31 OF 32 CAPLUS COPYRIGHT 2003 ACS

2002:211071 Document No. 137:93981 Studies toward the total synthesis of RP-66453. Boissnard, Sabine; Zhu, Jieping (CNRS, Institut de Chimie des Substances Naturelles, Gif-sur-Yvette, 91198, Fr.). Tetrahedron Letters, 43(14), 2577-2580 (English) 2002. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT 137:93981. Publisher: Elsevier Science Ltd..

IT 442528-03-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

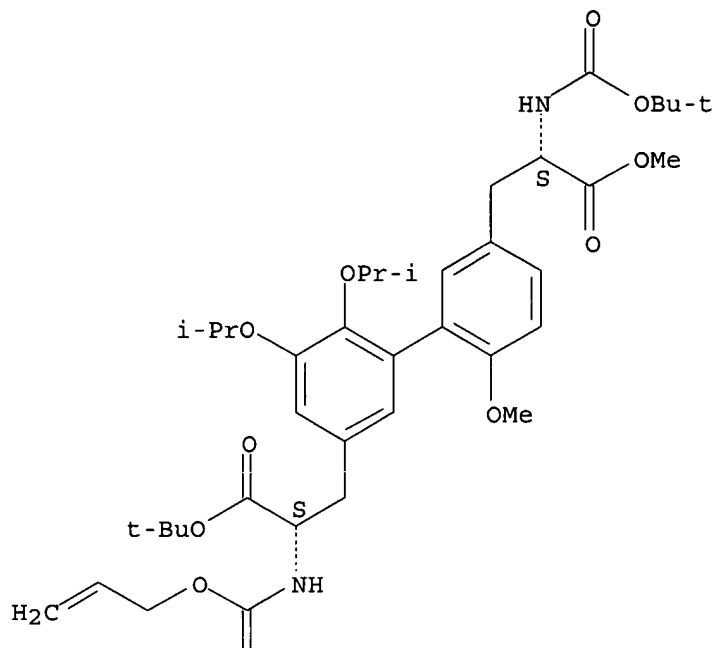
(preparation and reaction of in the preparation of bicyclic A-B-O-C ring system of RP-66453)

RN 442528-03-2 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha'$ -[[[(1,1-dimethylethoxy)carbonyl]amino]-6'-methoxy-5,6-bis(1-methylethoxy)- $\alpha$ -[(2-propenyloxy)carbonyl]amino]-,  $\alpha$ -(1,1-dimethylethyl)  $\alpha'$ -methyl ester, ( $\alpha$ S, $\alpha'$ S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



L7 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2003 ACS

2002:107924 Document No. 136:167692 Preparation of new biphenyl and biphenyl-analogous compounds as integrin antagonists. Albers, Markus; Urbahns, Klaus; Vaupel, Andrea; Harter, Michael; Schmidt, Delf; Stelte-Ludwig, Beatrix; Gerdes, Christoph; Stahl, Elke; Keldenich, Jorg; Brueggemeier, Ulf; Lustig, Klemens (Germany). U.S. Pat. Appl. Publ. US 2002016461 A1 20020207, 256 pp., Division of U.S. Ser. No. 464,237. (English). CODEN: USXXCO. APPLICATION: US 2001-828514 20010406. PRIORITY: US 1998-PV172225 19981216; US 1999-464237 19991215.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002016461	A1	20020207	US 2001-828514	20010406
US 6420396	B1	20020716	US 1999-464237	19991215

IT 276257-88-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of biphenyl amino acid analogs as integrin antagonists for inhibition of angiogenesis and treatment of cancer, osteolytic diseases, arteriosclerosis, restenosis, rheumatoid arthritis, and ophthalmic disorders)

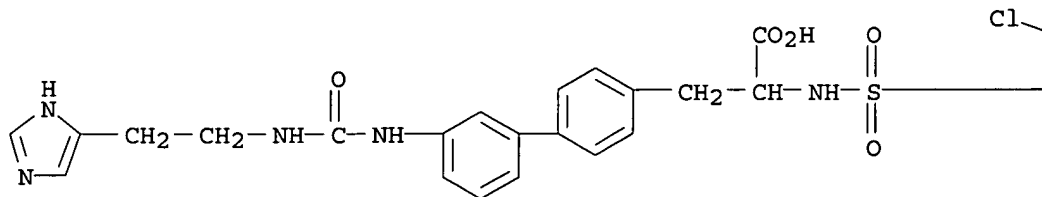
RN 276257-88-6 CAPLUS

CN [1,1'-Biphenyl]-4-propanoic acid, α-[[[2-

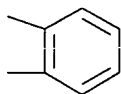


chlorophenyl)sulfonyl]amino]-3'-[[[2-(1H-imidazol-4-yl)ethyl]amino]carbonyl]amino] - (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



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L7 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2003 ACS

1996:445595 Document No. 125:137462 N,N'-bisformyl dityrosine is an in vivo precursor of the yeast ascospore wall. Briza, Peter; Kalchhauser, Hermann; Pittenauer, Ernst; Allmaier, Guenter; Breitenbach, Michael (Institut Genetik und Allemeine Biologie, Universitaet Salzburg, Salzburg, A-5020, Austria). European Journal of Biochemistry, 239(1), 124-131 (English) 1996. CODEN: EJBCAI. ISSN: 0014-2956. Publisher: Springer.

IT 179555-54-5P 179798-22-2P 179798-23-3P

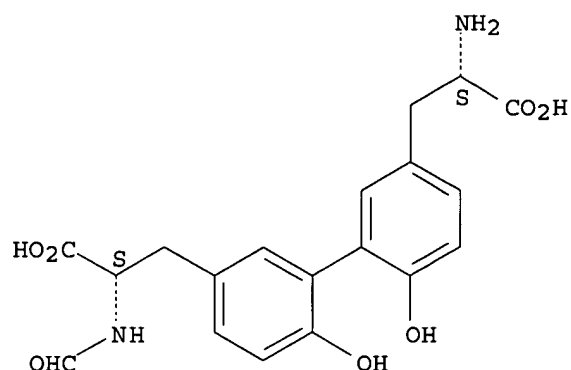
RL: BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process)

(N,N'-bisformyl dityrosine is in vivo precursor of yeast ascospore wall)

RN 179555-54-5 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha$ -amino- $\alpha'$ -(formylamino)-6,6'-dihydroxy-, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

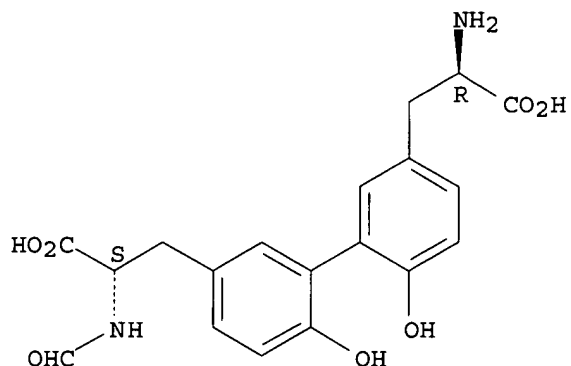
Absolute stereochemistry.



RN 179798-22-2 CAPLUS

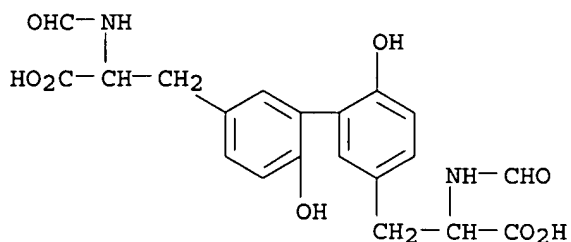
CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha$ -amino- $\alpha$ -(formylamino)-6,6'-dihydroxy-, (R\*,S\*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 179798-23-3 CAPLUS

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha, \alpha'$ -bis(formylamino)-6,6'-dihydroxy- (9CI) (CA INDEX NAME)



IT 114137-09-6

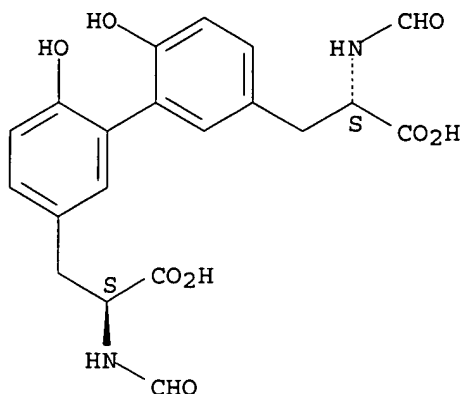
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence)  
(N,N'-bisformyl dityrosine is in vivo precursor of yeast ascospore wall)

RN 114137-09-6 CAPLUS

09/868,305 Thomas McKenzie

CN [1,1'-Biphenyl]-3,3'-dipropanoic acid,  $\alpha,\alpha'$ -bis(formylamino)-6,6'-dihydroxy-, ( $\alpha S,\alpha' S$ )- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2003 ACS

1997:440050 Document No. 127:66223 Preparation of urea moiety-containing peptide derivatives as neutral endopeptidase and angiotensin converting enzyme inhibitors. Nagano, Masanobu; Takenaka, Yasuhei; Kato, Takeshi (Fujisawa Pharmaceutical Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09118662 A2 19970506 Heisei, 51 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-237543 19960909. PRIORITY: GB 1995-18553 19950911.

IT 191426-70-7P 191426-78-5P

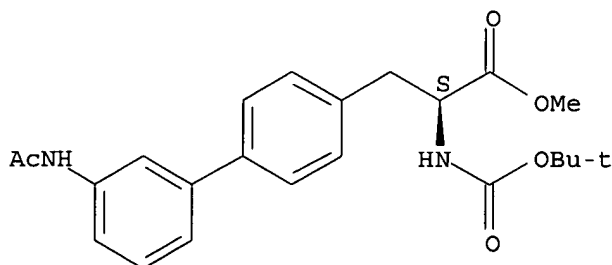
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of urea moiety-containing peptide derivs. as neutral endopeptidase and angiotensin converting enzyme inhibitors)

RN 191426-70-7 CAPLUS

CN [1,1'-Biphenyl]-4-propanoic acid, 3'-(acetylamino)- $\alpha$ -[[[1,1-dimethylethoxy)carbonyl]amino]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

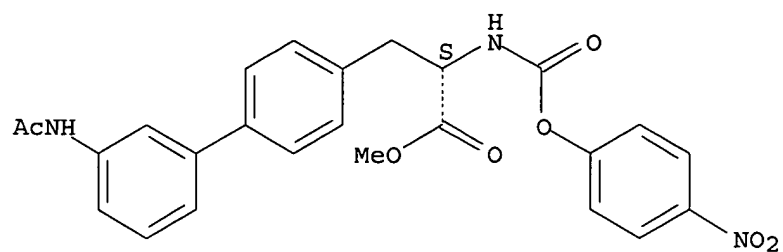


RN 191426-78-5 CAPLUS

CN [1,1'-Biphenyl]-4-propanoic acid, 3'-(acetylamino)- $\alpha$ -[[[4-nitrophenoxy)carbonyl]amino]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

09/868,305 Thomas McKenzie



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LOGOFF? (Y)/N/HOLD:.

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SINCE FILE  
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3	26	(((560/16,27,34,38,41).CCLS.) ((562/430,439,443).CCLS.) ((549/65,68,487,494).CCLS.) ((546/153,307,312,316).CCLS.) ((548/135,185,138,194,243,246,222,161,324.1,559,370.1,309.7,308.7,333.1,331.5,338.1,340.1,550,566,569,507).CC ((544/158).CCLS.) ((514/563,562,542,533,445,471,447,428,424,426,415,399,398,395,400,394,401,407,380,375,370,369,362,367,363,3 and (phenylene SAME (acid ester) SAME (sulfonamid\$ carbamat\$ amido\$ ureido\$ thiour\$)) ) (((560/16,27,34,38,41).CCLS.) ((562/430,439,443).CCLS.) ((549/65,68,487,494).CCLS.) ((546/153,307,312,316).CCLS.) ((548/135,185,138,194,243,246,222,161,324.1,559,370.1,309.7,308.7,333.1,331.5,338.1,340.1,550,566,569,507).CC ((544/158).CCLS.) ((514/563,562,542,533,445,471,447,428,424,426,415,399,398,395,400,394,401,407,380,375,370,369,362,367,363,3 and (phenylene SAME (acid ester) SAME (sulfonamid\$ carbamat\$ amido\$ ureido\$ thiour\$)) )	USPAT; US-PGPUB	2003/07/10 12:13